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FILE 'CAPLUS, USPATFULL, BIOTECHNO, IPA, BIOSIS, EMBASE, TOXCENTER,
     MEDLINE, CANCERLIT, DRUGU' ENTERED AT 11:29:36 ON 02 SEP 2004
L1
             16 S BONE MATASTAS?
L2
          32986 S BONE METASTAS?
L3
           6483 S ENDOTHELIN A RECEPTOR
L4
          58968 S ENDOTHELIN-1
L_5
          61364 S L3 OR L4
L6
             99 S L2 AND L5
1.7
             60 DUPLICATE REMOVE L6 (39 DUPLICATES REMOVED)
1.8
             10 S L7 AND PY<=2000
=> d 1-10 bib abs
     ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN
L8
AN
     1995:788871 CAPLUS
DN
     123:189302
     Identification of endothelin-1 in the pathophysiology
TI
     of metastatic adenocarcinoma of the prostate
     Nelson, Joel B.; Hedican, Sean P.; George, Daniel J.; Reddi, A. H.;
     Piantadosi, Steven; Eisenberger, Mario A.; Simons, Jonathan W.
     James Buchanan Brady Urological Inst., Johns Hopkins Hosp., Baltimore, MD,
CS
     21287-2411, USA
     Nature Medicine (New York) (1995), 1(9), 944-9
SO
     CODEN: NAMEFI; ISSN: 1078-8956
PB
     Nature Publishing Co.
DT
     Journal
     English
LA
     Prostate cancer is the second most common cause of death from cancer in
     U.S. men, and advanced, hormone-refractory disease is characterized by
     painful osteoblastic bone metastases.
     Endothelin-1, more commonly known as a potent
     vasoconstrictor, is a normal ejaculate protein that also stimulates
     osteoblasts. We show here that plasma immunoreactive endothelin concns.
     are significantly elevated in men with metastatic prostate cancer and that
     every human prostate cancer cell line tested produces endothelin
     -1 mRNA and secretes immunoreactive endothelin. Exogenous
     endothelin-1 is a prostate cancer mitogen in vitro and
     increases alkaline phosphatase activity in new bone formation, indicating that
     ectopic endothelin-1 may be a mediator of the
     osteoblastic response to bone to metastatic prostate cancer.
L8
      ANSWER 2 OF 10 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
AN
      1999:29244499
                      BIOTECHNO
      Osteomimetic properties of prostate cancer cells: A hypothesis supporting
TT
      the predilection of prostate cancer metastasis and growth in the bone
      environment
ΑU
      Koeneman K.S.; Yeung F.; Chung L.W.K.
      Dr. K.S. Koeneman, Molec. Urology/Therapeutics Program, Department of
CS
      Urology, Univ. of Virginia Hlth. Sci. Center, Charlottesville, VA 22908,
      United States.
SO
      Prostate, (01 JUN 1999), 39/4 (246-261), 153 reference(s)
      CODEN: PRSTDS ISSN: 0270-4137
DT
      Journal; Article
CY
     United States
LΑ
     English
SL
     English
AB
     BACKGROUND. Unlike most other malignancies, prostate cancer metastasizes
     preferentially to the skeleton and elicits osteoblastic reactions.
     METHODS. We present a hypothesis, based upon results obtained from our
     laboratory and others, on the nature of progression of prostate cancer
     cells and their predilection to growth and metastasis in the bone
     microenvironment. We propose the hypothesis that osseous metastatic
     prostate cancer cells must be osteomimetic in order to metastasize, grow,
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and survive in the skeleton. The reciprocal interaction between prostate cancer and bone stromal growth factors, including basic fibroblast growth factor (bFGF), hepatocyte growth factor/scatter factor (HGF/SF), and especially the insulin growth factor (IGF) axis initiates bone tropism, and is enhanced by prostate secreted endothelin-1 (ET-1) and urokinase-type plasminogen activator (uPA). Growth factors and peptides that have differentiating activity, such as transforming growth factor beta (TGF-β), parathyroid hormone-related protein (PTH-rp), and the bone morphogenetic proteins (BMPs), can shift local homeostasis to produce the characteristic blastic phenotype, via interaction with prostate- secreted human kalikrein 2 (hK2), and prostate-specific antigen (PSA). This proposal asserts that altering the expression of certain critical transcription factors, such as Cbfa and MSX in prostate cancer cells, which presumably are under the inductive influences of prostate or bone stromal cells, can confer profiles of gene expression, such as osteopontin (OPN), osteocalcin (OC), and bone sialoprotein (BSP), that mimic that of osteoblasts. RESULTS AND CONCLUSIONS. Elucidation of common proteins, presumably driven by the same promoters, expressed by both prostate cancer and bone stromal cells, could result in the development of novel preventive and therapeutic strategies for the treatment of prostate cancer skeletal metastasis. Agents developed using these strategies could have the potential advantage of interfering with growth and enhancing apoptosis in both prostate cancer and bone stromal compartments. The selective application of gene therapy strategy, driven by tissue-specific and tumor-restricted promoters for the safe delivery and expression of therapeutic genes in experimental models of prostate cancer metastasis, is discussed.

- L8 ANSWER 3 OF 10 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 2001:184546 BIOSIS
- DN PREV200100184546
- TI Osteoblastic bone metastases: Tumor-produced endothelin-1 mediates new bone formation via the endothelin A receptor.
- AU Yin, J. J. [Reprint author]; Grubbs, B. G.; Cui, Y.; Wu-Wong, J. R.; Wessale, J.; Padley, R.; Guise, T. A.
- CS University of Texas Health Science Center at San Antonio, San Antonio, TX, USA
- SO Cancer, (June 15, 2000) Vol. 88, No. 12, pp. 3093-3094. print.
 Meeting Info.: Second North American Symposium on Skeletal Complications of Malignancy. Montreal, Canada. October 15-16, 1999.
 CODEN: CANCAR. ISSN: 0008-543X.
- DT Conference; (Meeting) Conference; (Meeting Paper)
- LA English
- ED Entered STN: 11 Apr 2001 Last Updated on STN: 18 Feb 2002
- L8 ANSWER 4 OF 10 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 2000:416086 BIOSIS
- DN PREV200000416086
- TI Endothelin A receptor blockade inhibits osteoblastic metastases.
- AU Yin, J. J. [Reprint author]; Grubbs, B. G. [Reprint author]; Cui, Y. [Reprint author]; Wu-Wong, J. R.; Wessale, J.; Padley, R. J.; Guise, T. A. [Reprint author]
- CS Medicine/Endocrinology, University of Texas Health Science Center, San Antonio, TX, USA
- SO Journal of Bone and Mineral Research, (September, 2000) Vol. 15, No. Suppl. 1, pp. S201. print.

 Meeting Info.: Twenty-Second Annual Meeting of the American Society for Bone and Mineral Research. Toronto, Ontario, Canada. September 22-26,

2000. American Society for Bone and Mineral Research. CODEN: JBMREJ. ISSN: 0884-0431.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 27 Sep 2000 Last Updated on STN: 8 Jan 2002

- L8 ANSWER 5 OF 10 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
- AN 1999:441578 BIOSIS

DN PREV199900441578

- TI Osteoblastic bone metastases: Tumor-produced endothelin-1 mediates new bone formation via the endothelin A receptor.
- AU Yin, J. J. [Reprint author]; Grubbs, B. G. [Reprint author]; Cui, Y. [Reprint author]; Wu-Wong, J. R.; Wessale, J.; Padley, R.; Guise, T. A. [Reprint author]

CS Medicine, Univ. TX Hlth. Sci. Ctr., San Antonio, TX, USA

- Journal of Bone and Mineral Research, (Sept., 1999) Vol. 14, No. SUPPL. 1, pp. S289. print.

 Meeting Info.: Twenty-First Annual Meeting of the American Society for Bone and Mineral Research. St. Louis, Missouri, USA. September 30-October 4, 1999. American Society for Bone and Mineral Research.

 CODEN: JBMREJ. ISSN: 0884-0431.
- DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)

LA English

- ED Entered STN: 18 Oct 1999 Last Updated on STN: 3 May 2000
- L8 ANSWER 6 OF 10 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
- AN 2001034106 EMBASE
- TI Bone morphogenetic protein-6: Potential mediator of osteoblastic metastases in prostate cancer.
- AU Thomas B.G.; Hamdy F.C.
- CS F.C. Hamdy, Section of Urology, Royal Hallamshire Hospital, Glossop Road, Sheffield S10 2JF, United Kingdom
- Prostate Cancer and Prostatic Diseases, (2000) 3/4 (283-285). Refs: 10

ISSN: 1365-7852 CODEN: PCPDFW

- CY United Kingdom
- DT Journal; Article
- FS 016 Cancer
 - 028 Urology and Nephrology
 - 029 Clinical Biochemistry
- LA English
- SL English
- The mechanisms by which prostate cancer metastasizes to bone with a strong osteoblastic reaction remain poorly understood. Several factors have been previously implicated, including transforming growth factor- β , fibroblast growth factors, endothelin-1 and bone morphogenetic proteins (BMPs). BMP-6 expression has been shown exclusively in the malignant epithelial cells of prostate cancers that have metastasized, but not in organ confined disease. Expression of BMP-6 in radical prostatectomy specimens has been shown to correlate with increased recurrence rates and decreased survival. This article presents the results of work by the authors' group in this field and a current literature
- L8 ANSWER 7 OF 10 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
- AN 1999437181 EMBASE

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Overview: Hormone refractory prostate cancer. Crawford E.D.; Rosenblum M.; Ziada A.M.; Lange P.H.
 ΑU
      Dr. E.D. Crawford, Univ. of Colorado Health Sci. Center, Box C-324, 4200
 CS
      East Ninth Avenue, Denver, CO 80262, United States
 SO
      Urology, (1999) 54/6 SUPPL. 1 (1-7).
      Refs: 38
      ISSN: 0090-4295 CODEN: URGYAZ
 PUI S 0090-4295(99)00447-1
      United States
      Journal; General Review
 DT
 FS
              Cancer
      028
              Urology and Nephrology
      037
              Drug Literature Index
      038
              Adverse Reactions Titles
      English
 LΑ
     ANSWER 8 OF 10 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
L8
     on STN
MΑ
     1999094133 EMBASE
ΤI
     Cancer and bone.
ΑU
     Guise T.A.; Mundy G.R.
     Dr. T.A. Guise, Division of Endocrinology, Department of Medicine, Univ.
     of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX
     78284-7877, United States. guise@uthscsa.edu
SO
     Endocrine Reviews, (1998) 19/1 (18-54).
     Refs: 475
     ISSN: 0163-769X CODEN: ERVIDP
CY
     United States
DT
     Journal; General Review
FS
     003
             Endocrinology
     005
             General Pathology and Pathological Anatomy
     016
             Cancer
     029
             Clinical Biochemistry
     037
             Drug Literature Index
     English
LA
     ANSWER 9 OF 10 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
L8
     on STN
     1998098268 EMBASE
AN
     The molecular biology of prostate cancer morbidity and mortality:
TI
     Accelerated death from ejaculate poisoning?.
ΑU
     Chou E.; Simons J.W.
CS
     Dr. J.W. Simons, Johns Hopkins Oncology Center, James Buchanan Brady Urol.
     Institute, Johns Hopkins Hospital, 600 N. Wolfe Street, Baltimore, MD
     21287-2411, United States
SO
     Urologic Oncology, (1997) 3/3 (79-84).
     Refs: 36
     ISSN: 1078-1439 CODEN: URONEC
PUI
    S 1078-1439(97)00041-0
CY
     United States
DT
     Journal; Article
             General Pathology and Pathological Anatomy
FS
     016
             Cancer
             Urology and Nephrology
             Clinical Biochemistry
LA
     English
     English
SL
     The molecular biology of host-tumor interactions unique to human prostate
AB
     cancer that cause patient morbidity are poorly understood despite the
     prevalence of this neoplasm. Little is known fundamentally about
    prostate-specific exocrine gene products secreted by metastatic prostate
     carcinoma cells at metastatic sites that cause diffuse bone pain,
     immunosuppression, anemia, cachexia, and other clinical signs of advanced
    prostate cancer. Growing evidence supports the presence of androgen-
```

regulated exocrine gene products as independent mediators of prostate cancer morbidity. The experimental and clinical implications of a hypothesis that prostate-specific exocrine genes cause patient morbidity are discussed.

 L_8 ANSWER 10 OF 10 DRUGU COPYRIGHT 2004 THOMSON DERWENT on STN AN 1995-45609 DRUGU T S Plasma endothelin-1 as a marker for doxorubicin ΤI cardiotoxicity. ΑU Yamashita J; Ogawa M; Shirakusa T CS Univ. Fukuoka; Univ. Kumamoto LO Fukuoka; Kumamoto, Jap. SO Int.J.Cancer (62, No. 5, 542-47, 1995) 4 Fig. 2 Tab. 35 Ref. CODEN: IJCNAW ISSN: 0020-7136 Department of Surgery II, Fukuoka University School of Medicine, Nanakuma ΑV 7-45-1, Jonan, Fukuoka 814-01, Japan. LA English DT Journal FΑ AB; LA; CT FS Literature 1995-45609 DRUGU AΝ T S In a prospective study of 30 patients with breast cancer (23) or AB small-cell lung cancer (7) treated with doxorubicin (DR), plasma concentrations of endothelin (ET)-1 increased progressively in 5 cases, not related to cumulative DR dose, and 2/5 developed clinical CHF. medications included tamoxifen, 5-fluorouracil, cyclophosphamide, medroxyprogesterone- acetate, 5'-doxifluridine, cisplatin, vincristine and etoposide. Serial measurements of plasma ANF, fractional shortening (FS) studied by M-mode echocardiography, and LV ejection fraction (LVEF) showed no abnormalities until the development of CHF. Patients who did not develop CHF showed no appreciable change in plasma ET-1 or other markers. The results suggest that plasma ET-1 may be useful for predicting the risk of DR-induced cardiotoxicity. ABEX Methods 30 Consecutive Japanese patients (aged 35-70 yr, mean 55 yr, 6 men) scheduled to receive DR were monitored by ECG and M-mode echocardiography, and blood analysis for DR, ET-1 (by RIA and HPLC) and ANF (by RIA). Results Plasma ET-1 levels rose progressively in 5/30 (3 breast cancer and 2 small-cell lung cancer) patients during DR treatment. 25 Patients given cumulative DR doses of 400-660 mg/sq.m showed no appreciable change in plasma levels of ET-1 or ANF, or in the FS or LVEF. 2/5 Patients with progressive rises in ET-1 developed clinical CHF. 1 Of these was a 52-yr-old woman with lung and bone metastases from breast cancer, treated with DR, 5-fluorouracil and cyclophosphamide; she had plasma ET-1 rising from 2.2 to 7.7 pg/ml at 400 mg/sq.m $\overline{\text{DR}}$, and developed clinical CHF after 2 additional courses of 50 mg/sq.m DR. Baseline and serial FS and LVEF had shown no abnormality until she developed CHF. CHF resolved with medical therapy after stopping DR. In the other case, a 54-yr-old man with extensive small-cell lung cancer treated with DR, vincristine and cyclophosphamide, had shown ET-1 rise from 3.1 to 10 pg/ml after 420 mg/sq.m DR, but no change in FS or LVEF; he developed signs of CHF after the next DR dose (60 mg/sq.m), and improved after stopping DR and treatment with diuretics + fluid restriction. 3 Patients had increases in plasma ET-1 from 2.5 to 7, 2.6 to 8.2 and 2 to 6.9 pg/ml after cumulative 550, 450 and 450 mg/sq.m DR, respectively, then stopped DR and

did not develop CHF. (W103/AE)